

ABSTRACT

THIN FILM MAGNETIC RECORDING MEDIA

5        A method and apparatus for forming a thin film magnetic recording media, the  
method comprises generating magnetic nanoclusters from a target of magnetic material,  
crystallizing the magnetic nanoclusters, and depositing the magnetic nanoclusters onto a  
substrate to form a thin film of magnetic particles thereon. The magnetic nanoclusters are  
deposited onto the substrate after crystallized and therefore after the deposition. The  
10       apparatus comprises a first chamber, a second chamber connected to the first chamber, and  
a third chamber connected to the second chamber. The first chamber has a source for  
generating magnetic nanoclusters. The second chamber is to receive the magnetic  
nanoclusters and crystallize the magnetic nanoclusters. The third chamber is to receive the  
crystallized magnetic nanoclusters from the second chamber and deposit the crystallized  
15       magnetic nanoclusters onto the substrate positioned therein.

(Fig. 4)

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